

# Bayblend® T90 MF-20

Standard grades	/ Mineral	filled
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Rubber modified (PC+SAN) blend; 20 % mineral filled; Vicat/B 120 temperature = 130 °C; very good flow; reduced coefficient of thermal expansion; tensile modulus = 4900 MPa; good heat resistance

ISO Shortname

PC+SAN-I-TD20

Property	Test Condition	Unit	Standard	typical Value
Rheological properties				
C Melt volume-flow rate	260 °C; 5 kg	cm <sup>3</sup> /10 min	ISO 1133	12
Melt viscosity	1000 s <sup>-1</sup> ; 260 °C	Pa-s	b.o. ISO 11443-A	240
Molding shrinkage, parallel	150x105x3 mm; 260 °C / MT 80 °C	%	b.o. ISO 2577	0.3 - 0.5
Molding shrinkage, normal	150x105x3 mm; 260 °C / MT 80 °C	%	b.o. ISO 2577	0.25 - 0.45
Mechanical properties (23 °C/50 % r. h.)	·			<u>,                                      </u>
C Tensile modulus	1 mm/min	MPa	ISO 527-1,-2	4900
C Yield stress	50 mm/min	MPa	ISO 527-1,-2	60
C Yield strain	50 mm/min	%	ISO 527-1,-2	3.2
Stress at break	50 mm/min	MPa	ISO 527-1,-2	50
Strain at break	50 mm/min	%	b.o. ISO 527-1,-2	9.0
Izod impact strength	23 °C	kJ/m²	ISO 180-U	100
Izod impact strength	-30 °C	kJ/m²	ISO 180-U	50
Izod notched impact strength	23 °C	kJ/m²	ISO 180-A	20
Izod notched impact strength	-30 °C	kJ/m²	ISO 180-A	6.0
Fhermal properties		,	,	,
C Temperature of deflection under load	1.80 MPa	°C	ISO 75-1,-2	111
C Temperature of deflection under load	0.45 MPa	°C	ISO 75-1,-2	127
C Vicat softening temperature	50 N; 50 °C/h	°C	ISO 306	128
Vicat softening temperature	50 N; 120 °C/h	°C	ISO 306	130
C Coefficient of linear thermal expansion, parallel	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.4
C Coefficient of linear thermal expansion, transverse	23 to 55 °C	10 <sup>-4</sup> /K	ISO 11359-1,-2	0.56
C Burning behavior UL 94	0.85 mm	Class	UL 94	НВ
Electrical properties (23 °C/50 % r. h.)	·		<b>:</b>	•
C Relative permittivity	100 Hz	-	IEC 60250	3.3
C Relative permittivity	1 MHz	-	IEC 60250	3.2
C Dissipation factor	100 Hz	10 <sup>-4</sup>	IEC 60250	15
C Dissipation factor	1 MHz	10 <sup>-4</sup>	IEC 60250	32
C Volume resistivity		Ohm-m	IEC 60093	1E14
C Surface resistivity	-	Ohm	IEC 60093	1E16
C Electrical strength	1 mm	kV/mm	IEC 60243-1	35
C Comparative tracking index CTI	Solution A	Rating	IEC 60112	225
Other properties (23 °C)	,	•	•	•
C Water absorption (saturation value)	Water at 23 °C	%	ISO 62	0.5
C Water absorption (equilibrium value)	23 °C; 50 % r. h.	%	ISO 62	0.2
C Density		kg/m³	ISO 1183-1	1290
Processing conditions for test specimens	,	•	1	<b>,</b>
C Injection molding-Melt temperature		°C	ISO 294	260
C Injection molding-Mold temperature		°C	ISO 294	80
		1	1	1

C These property characteristics are taken from the CAMPUS plastics data bank and are based on the international catalogue of basic data for plastics according to ISO 10350.

Impact properties: N = non-break, P = partial break, C = complete break





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### Disclaimer

Information Impact properties

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Typical value

These values are typical values only. Unless explicitly agreed in written form, the do not constitute a binding material specification or warranted values. Values may be affected by the design of the mold/die, the processing conditions and coloring/pigmentation of the product. Unless specified to the contrary, the property values given have been established on standardized test specimens at room temperature.

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